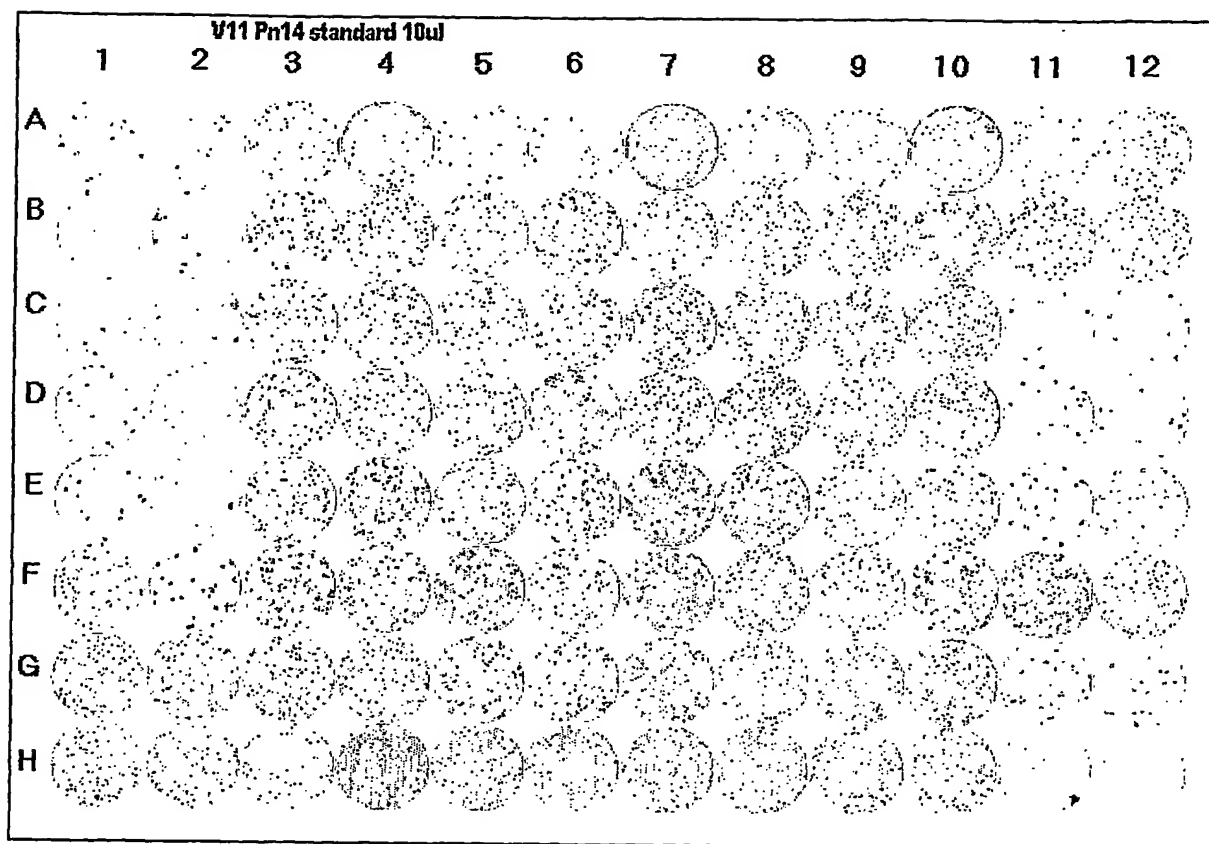


[illegible]

FIG. 1

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FIG. 2

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OPK V11-14 Colony Read Out by Immunospot Counter											
	(019 pool)		(014 pool)		(013 pool)		Neg. Sera & Dilution		Neg. Sera & Dilution		Controls
	21	16	61	51	29	33	185	165	183	203	133
	8	15	74	118	95	107	145	194	178	168	137
	15	9	97	93	101	86	174	197	170	199	8
	19	9	95	107	106	96	165	166	153	200	17
	19	7	101	109	105	120	166	177	94	101	25
	68	42	95	104	142	105	165	179	123	98	161
	136	145	121	125	92	105	183	198	163	158	43
	147	133	128	127	114	109	178	168	182	190	9
											5

FIG. 3

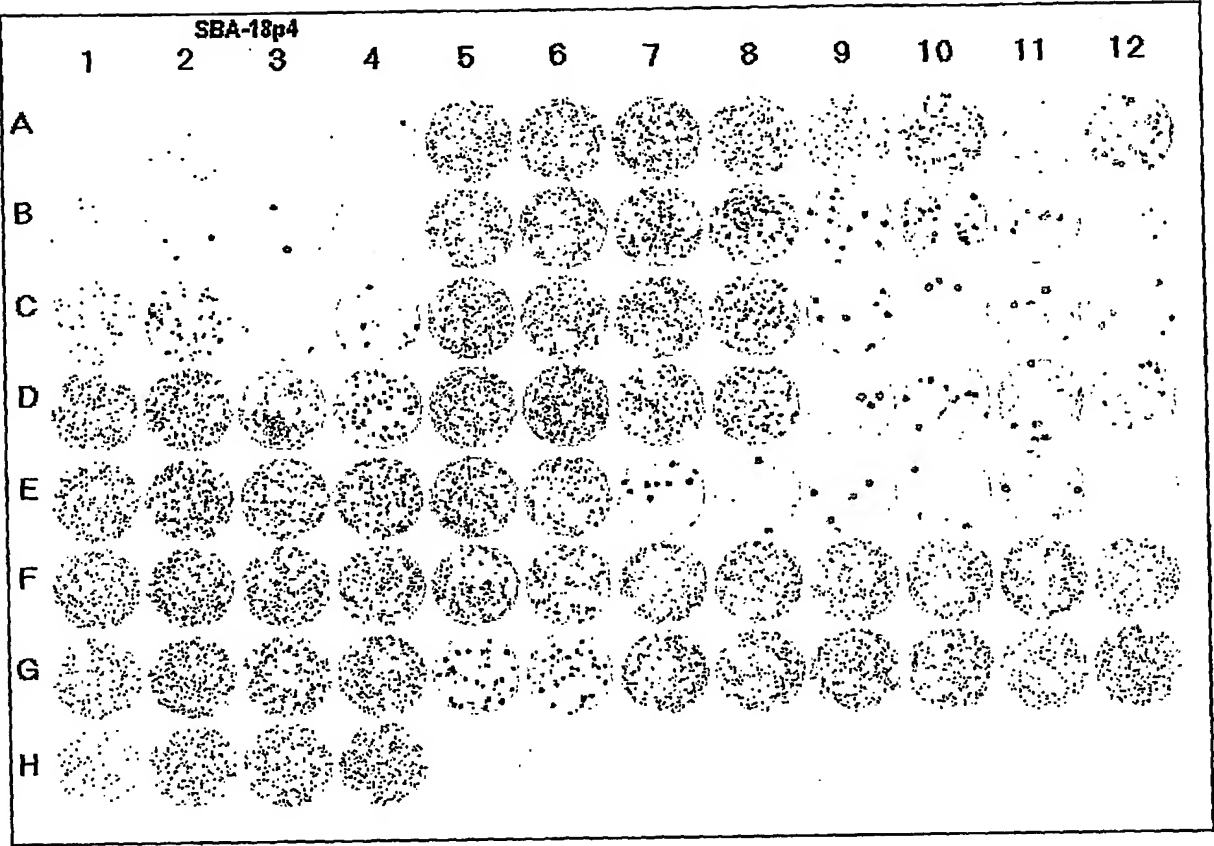
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Serotype C					Serotype C bacteria, MJC post serum 1:16						
Pre		Post		Controls		Post		Post		Post	
1	2	3	4	5	6	7	8	9	10	11	12
A	1:4	1:4		Cells only (2) pre 1:16		Mn C-Ps 10000 ng/ml	W135-Ps 10000 ng/ml	Y-Ps 10000 ng/ml			
B	1:8	1:8		Cells only (2) post 1:16		Mn C-Ps 1000 ng/ml	W135-Ps 1000 ng/ml	Y-Ps 1000 ng/ml			
C	1:16	1:16		Cells + C'		Mn C-Ps 100 ng/ml	W135-Ps 100 ng/ml	Y-Ps 100 ng/ml			
D	1:32	1:32				Mn C-Ps 10 ng/ml	W135-Ps 10 ng/ml	Y-Ps 10 ng/ml			
E	1:64	1:64		post 1:16 + Mn C-PS 10 ug/ml (2)		post 1:16 no Ps	post 1:16 no Ps	post 1:16 no Ps			
F	1:128	1:128		post 1:16 + Mn W135-PS 10 ug/ml		Cells only post 1:16	Cells only post 1:16	Cells only post 1:16			
G	1:256	1:256		post 1:16 + Mn Y-PS 10 ug/ml (2)		Cells+C'	Cells+C'	Cells+C'			
H	1:512	1:512		medium control		medium control	medium control	medium control			

FIG. 4

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FIG. 5

Serotype C										Serotype C bacteria, MJC post serum 1:16									
pre		post		controls		Mn C-ps		Mn W135-ps		Mn Y-ps									
	Avg %Killing		Avg %Killing		Avg %Killing		Avg %Killing		Avg %Killing		Avg %Killing		Avg %Killing		Avg %Killing		Avg %Killing		Avg %Killing
A	1:4	6	96	1:4	1	100	Cells only pre 1:16	152	3	Mn C-Ps 10000 ng/ml	121	7	W135-Ps 10000 ng/ml	73	47	Y-Ps 10000 ng/ml	34	78	
B	1:8	6	96	1:8	1	99	Cells only post 1:16	131	16	Mn C-Ps 1000 ng/ml	96	26	W135-Ps 1000 ng/ml	29	79	Y-Ps 1000 ng/ml	9	94	
C	1:16	50	68	1:16	11	93	Cells + C ⁱ (4 wells)	156		Mn C-Ps 100 ng/ml	112	14	W135-Ps 100 ng/ml	7	95	Y-Ps 100 ng/ml	9	94	
D	1:32	131	16	1:32	70	55				Mn C-Ps 10 ng/ml	99	24	W135-Ps 10 ng/ml	10	93	Y-Ps 10 ng/ml	29	81	
E	1:64	126	19	1:64	112	29	post 1:16 + Mn C-PS 10 ug/ml (2)	107	32	post 1:16 no Ps	12	91	post 1:16 no Ps	6	96	post 1:16 no Ps	8	95	
F	1:128	146	7	1:128	128	18	post 1:16 + Mn W135-PS 10 ug/ml (2)	97	38	Cells only post 1:16	152	-17	Cells only post 1:16	155	-14	Cells only post 1:16	132	12	
G	1:256	167	-7	1:256	129	18	post 1:16 + Mn Y-PS 10 ug/ml (2)	45	71	Cells + C ⁱ	130	0	Cells + C ⁱ	136	0	Cells + C ⁱ	150	0	
H	1:512	173	-11	1:512	161	-3	medium control	0	100	medium control	0	100	medium control	0	100	medium control	0	100	

FIG. 6

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Attachment I
Plate Layout for Each Validation Run
Each Run was Performed Using the Agar and HV Plate Methods

Serotype 23F

Plate Operator HL-60
 Batch

1 1 1

(019 pool)		(014 pool)		(013 pool)		neg. sera		neg. sera		Controls	
1	2	1	2	1	2	#	Dilution	#	Dilution	1	2
1:32		1:8		1:8		1	1:8	5	1:8	Cells + C'	
1:64		1:16		1:16			1:16		1:16	(no serum)	
1:128		1:32		1:32		2	1:8	6	1:8	QC-1 (2X titer)	
1:256		1:64		1:64			1:16		1:16	QC-1 (1X titer)	
1:512		1:128		1:128		3	1:8	7	1:8	QC-1 (0.5X titer)	
1:1024		1:256		1:256			1:16		1:16	QC-1 (1:64) + 23F PS	
1:2048		1:512		1:512		4	1:8	8	1:8	QC-1 (1:64) + C-Ps*	
1:4096		1:1024		1:1024			1:16		1:16	Medium alone	

Note: "2X titer" = 50% endpoint titer of positive control serum times 2.

*Use polysaccharides (PS) at 1 mcg/ mL

Plate Operator HL-60
 Batch

2 2 1

(019 pool)		(014 pool)		013 pool		neg. sera		neg. sera		Controls	
1	2	1	2	1	2	#	Dilution	#	Dilution	1	2
1:32		1:8		1:8		9	1:8	13	1:8	Cells + C'	
1:64		1:16		1:16			1:16		1:16	(no serum)	
1:128		1:32		1:32		10	1:8	14	1:8	QC-1 (2X titer)	
1:256		1:64		1:64			1:16		1:16	QC-1 (1X titer)	
1:512		1:128		1:128		11	1:8	15	1:8	QC-1 (0.5X titer)	
1:1024		1:256		1:256			1:16		1:16	QC-1 (1:64) + 23F PS	
1:2048		1:512		1:512		12	1:8	16	1:8	QC-1 (1:64) + C-Ps*	
1:4096		1:1024		1:1024			1:16		1:16	Medium alone	

Plate Operator HL-60
 Batch

3 1 2

(019 pool)		(014 pool)		013 pool		neg. sera		neg. sera		Controls	
1	2	1	2	1	2	#	Dilution	#	Dilution	1	2
1:32		1:8		1:8		17	1:8	21	1:8	Cells + C'	
1:64		1:16		1:16			1:16		1:16	(no serum)	
1:128		1:32		1:32		18	1:8	22	1:8	QC-1 (2X titer)	
1:256		1:64		1:64			1:16		1:16	QC-1 (1X titer)	
1:512		1:128		1:128		19	1:8	23	1:8	QC-1 (0.5X titer)	
1:1024		1:256		1:256			1:16		1:16	QC-1 (1:64) + 23F PS	
1:2048		1:512		1:512		20	1:8	24	1:8	QC-1 (1:64) + C-Ps*	
1:4096		1:1024		1:1024			1:16		1:16	Medium alone	

FIG. 7A

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Attachment I (continued)
Plate Layout for Each Validation Run
Each Run was Performed Using the Agar and HV Plate Methods

Plate	Operator	HL-60 Batch	(019 pool)		(014 pool)		013 pool		neg. sera		neg. sera		Controls	
			1	2	1	2	1	2	#	Dilution	#	Dilution	1	2
4	2	2	1:32		1:8		1:8		25	1:8	29	1:8	Cells + C'	
			1:64		1:16		1:16			1:16		1:16	(no serum)	
			1:128		1:32		1:32		26	1:8	30	1:8	QC-1 (2X titer)	
			1:256		1:64		1:64			1:16		1:16	QC-1 (1X titer)	
			1:512		1:128		1:128		27	1:8	31	1:8	QC-1 (0.5X titer)	
			1:1024		1:256		1:256			1:16		1:16	QC-1 (1:64) + 23F PS	
			1:2048		1:512		1:512		28	1:8	32	1:8	QC-1 (1:64) + C-Ps*	
			1:4096		1:1024		1:1024			1:16		1:16	Medium alone	

Plate	Operator	HL-60 Batch	(019 pool)		(014 pool)		013 pool		neg. sera		neg. sera		Controls	
			1	2	1	2	1	2	#	Dilution	#	Dilution	1	2
5	1	3	1:32		1:8		1:8		33	1:8	37	1:8	Cells + C'	
			1:64		1:16		1:16			1:16		1:16	(no serum)	
			1:128		1:32		1:32		34	1:8	38	1:8	QC-1 (2X titer)	
			1:256		1:64		1:64			1:16		1:16	QC-1 (1X titer)	
			1:512		1:128		1:128		35	1:8	39	1:8	QC-1 (0.5X titer)	
			1:1024		1:256		1:256			1:16		1:16	QC-1 (1:64) + 23F PS	
			1:2048		1:512		1:512		36	1:8	40	1:8	QC-1 (1:64) + C-Ps*	
			1:4096		1:1024		1:1024			1:16		1:16	Medium alone	

Plate	Operator	HL-60 Batch	(019 pool)		(014 pool)		013 pool		neg. sera		neg. sera		Controls	
			1	2	1	2	1	2	#	Dilution	#	Dilution	1	2
6	2	3	1:32		1:8		1:8		41	1:8	45	1:8	Cells + C'	
			1:64		1:16		1:16			1:16		1:16	(no serum)	
			1:128		1:32		1:32		42	1:8	46	1:8	QC-1 (2X titer)	
			1:256		1:64		1:64			1:16		1:16	QC-1 (1X titer)	
			1:512		1:128		1:128		43	1:8	47	1:8	QC-1 (0.5X titer)	
			1:1024		1:256		1:256			1:16		1:16	QC-1 (1:64) + 23F PS	
			1:2048		1:512		1:512		44	1:8	48	1:8	QC-1 (1:64) + C-Ps*	
			1:4096		1:1024		1:1024			1:16		1:16	Medium alone	

FIG. 7B

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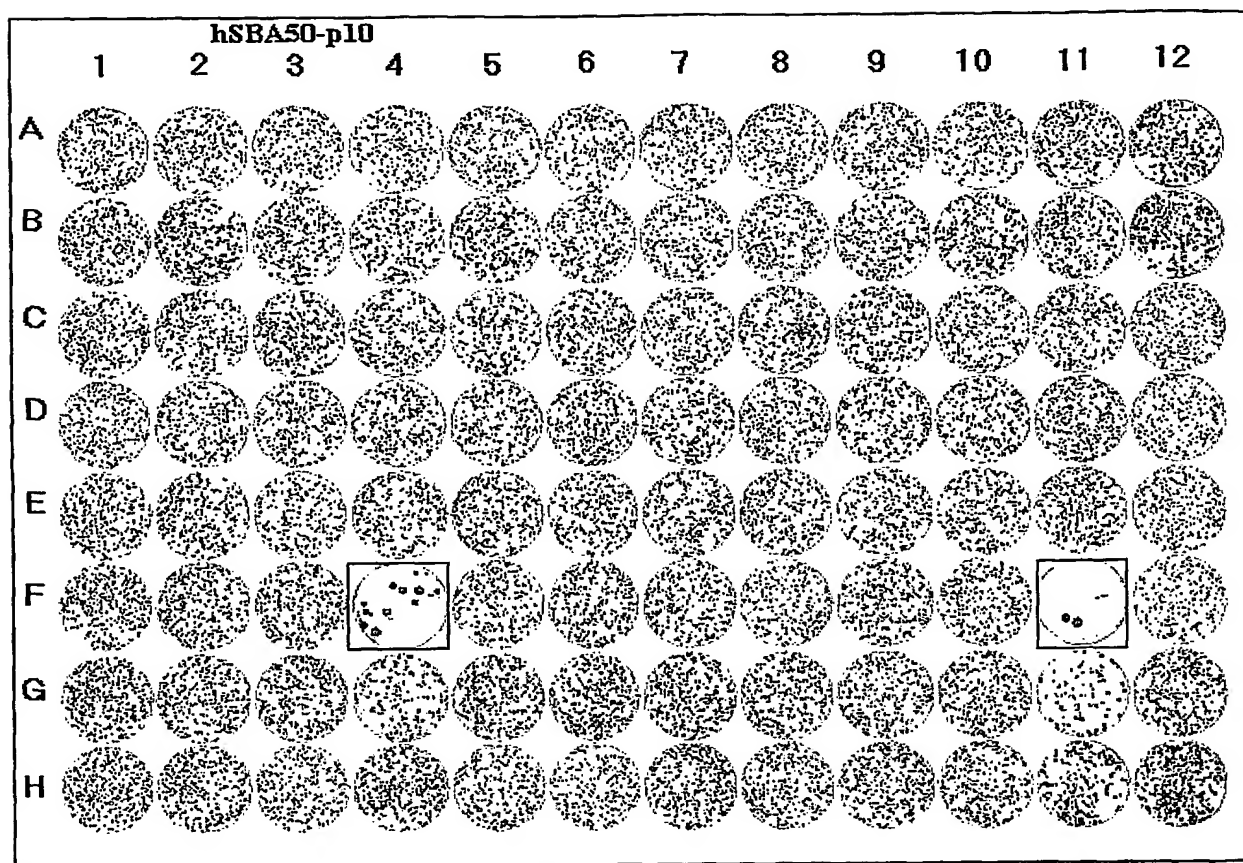
Attachment II
Plate Layout for Specificity Experiment
One Agar Plate and One HV Plate was Prepared by Operator SW

Column:	1	2	3	4	5	6	7	8	9	10	11	12
Serum:	Pool 019		QC-1		Pool 019 minus C'		QC-1 minus C'		Pool 019 Specificity		QC-1 Specificity	
Row	1	2	1	2	1	2	1	2	1	2	1	2
A	1:32		1:32		1:32		1:32		1:64		1:64	
B	1:64		1:64		1:64		1:64		1:64 + Ps 6B		1:64 + Ps 6B	
C	1:128		1:128		1:128		1:128		1:64 + Ps 9V		1:64 + Ps 9V	
D	1:256		1:256		1:256		1:256		1:64 + Ps 14		1:64 + Ps 14	
E	1:512		1:512		1:512		1:512		1:64 + Ps 18C		1:64 + Ps 18C	
F	1:1024		1:1024		1:1024		1:1024		1:64 + Ps 19F		1:64 + Ps 19F	
G	1:2048		1:2048		1:2048		1:2048		1:64 + Ps 23F		1:64 + Ps 23F	
H	No Serum		No Serum		No Serum		No Serum		1:64 + C-Ps		1:64 + C-Ps	

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FIG. 8

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FIG. 9